










When it comes to incentives, Tennessee knows that one size does not fit all. This is especially true with the unique business opportunities and challenges faced by renewable energy companies. That's why Tennessee has established forward-thinking, green business incentives that include:

-  Green Energy Tax Credit
-  Carbon Charge Tax Credit
-  Pollution Control Equipment Tax Credit
-  Emerging Industry Tax Credit
-  Reduced Tax on Electricity
-  Green Island Biofuel Corridor Infrastructure Grant
-  Tennessee Energy Loan Program
-  Solar Institute Innovation Grant
-  Solar Institute Installation Grant

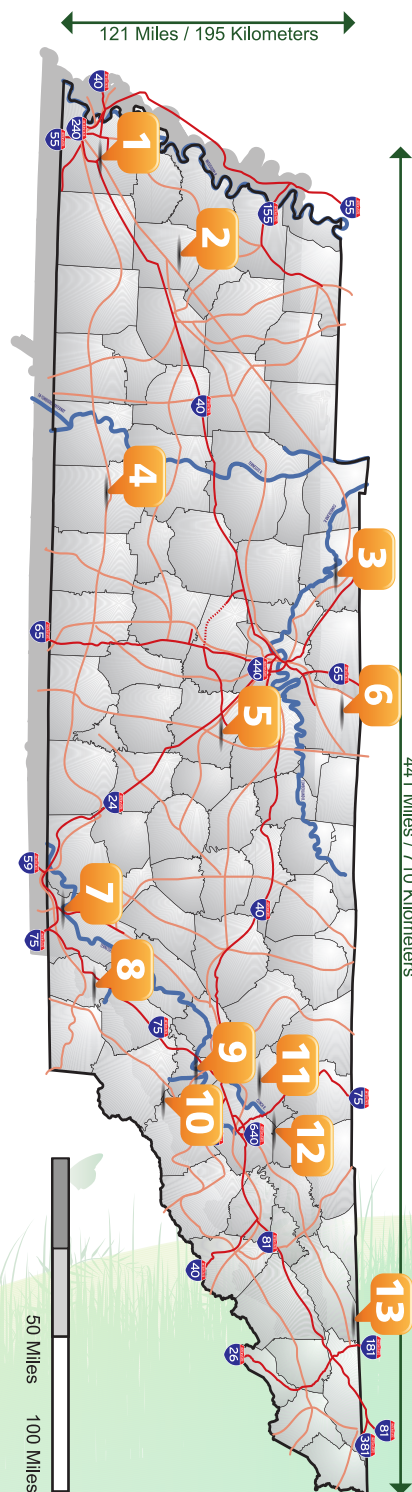
**For more information on Tennessee's incentives, visit:**



Tennessee is committed to expanding and growing the renewable energy sector throughout the state and around the world. The Department of Economic and Community Development can help businesses explore opportunities in Tennessee. Call 877-768-6374 or visit [www.tn.gov/ecdc](http://www.tn.gov/ecdc) or [www.investtennessee.org](http://www.investtennessee.org) for more information.

- |  |   |  |  |                                      |
|--|---|--|--|--------------------------------------|
| <b>1</b> Sharp Solar - Memphis                     | <b>4</b> Clear Fuels Technologies / Hughes Hardwood Biorefinery - Collinswood | <b>7</b> • SIAG - Aerisyn • Alstom Power - Chattanooga | <b>10</b> Dupont Danisco Cellulosic Ethanol / Genera Energy Biorefining - Vonore           | <b>12</b> Confluence Solar - Clinton |
| <b>2</b> West Tennessee Solar Farm - Brownsville   | <b>5</b> Nissan Manufacturing Plant - Smyrna                                  | <b>8</b> Wacker Chemie - Cleveland                     | <b>11</b> • Oak Ridge National Lab • TVA Wind Farm • Tennessee Solar Institute - Oak Ridge | <b>13</b> AGC Flat Glass - Kingsport |
| <b>3</b> Hemlock Semiconductor Corp. - Clarksville | <b>6</b> Shoals Technologies - Gallatin                                       | <b>9</b> DuPont Tate + Lyle Bio Products - London      |  |                                      |

Major renewable energy companies and key initiatives throughout the state of Tennessee include:



# Powering New Growth



## Renewable Energy in Tennessee

PREPARED BY THE DEPARTMENT OF ECONOMIC AND COMMUNITY DEVELOPMENT





## Green Industry in Tennessee

Tennessee is focused on the next great exports of renewable energy research, technology and products. Our state is already home to a diverse portfolio of companies in the solar, wind, biofuels and electric vehicle sectors, including Hemlock Semiconductor Corp., Wacker Chemie, Nissan North America, SIAG-Aerisyn, Alstom Power and DuPont Danisco Cellulosic Ethanol.

The state has gained a worldwide reputation as a national clean energy hub and emerging force in the U.S. solar industry. Pew Charitable Trusts has named Tennessee one of only three states in the nation with a large fast-growing clean energy economy. Find out why so many renewable energy companies call Tennessee home.

## Green Vehicles



- Nissan North America is investing \$1.4 billion in retooling their Smyrna manufacturing plant to produce zero-emissions vehicles and state-of-the-art lithium-ion battery packs to power them.
- Tennessee is one of five states participating in a large-scale installation of electric vehicle charging infrastructure and the deployment of up to 5,000 Nissan battery electric vehicles.

## Biofuel Technology



- Tennessee is home to one of the nation's first cellulosic ethanol demonstration plants, and the only one dedicated to converting both agricultural residue and bioenergy crops to fuel ethanol.
- The 74,000-square-foot facility in Vonore has the capacity to produce 250,000 gallons of ethanol from corn cobs and switchgrass annually and is a joint partnership of DuPont Danisco Cellulosic Ethanol and the University of Tennessee/Genera Energy.

## Wind Energy



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## Solar Power



- Hemlock Semiconductor Corp. and Wacker Chemie, the world's leading producers of polycrystalline silicon, have invested a combined \$2.2 billion in Tennessee. They join other solar-related companies in the state including Sharp Manufacturing, AGC Flat Glass, Confluence Solar and Shoals Technologies.
- Tennessee has established the Volunteer State Solar Initiative with \$62 million in federal funds to support job creation and advance education, research and renewable power production. The initiative consists of two projects:
  - o The Tennessee Solar Institute – a center for excellence to spur accelerated growth in Tennessee's burgeoning solar industry and serve as a crossroads for a wide range of solar-related activities in the Volunteer State.
  - o The West Tennessee Solar Farm – a five megawatt 20-acre power generation facility in Haywood County that will be one of the largest installations in the Southeast and serve as an educational and demonstration tool.
- The TVA Buffalo Mountain Wind Farm in East Tennessee is the first commercial-scale use of wind power to generate electricity in the southeastern United States.
- These turbines have the capacity to generate 29 megawatts of electricity, or enough to power almost 4,000 homes.
- Leading wind tower turbine manufacturer SIAG Schraaf Industrie's only North American plant, SIAG Aerisyn, is located in Chattanooga. Production at full capacity is almost 1,000 segments or 250 wind towers.